

1 Listing of the Claims:

2 This listing of claims will replace all prior versions, and  
3 listings, of claims in the application using (Original) (Currently  
4 Amended) (New) (Canceled) (Previously Presented) nomenclature, as  
5 recited in the below listing of claims.

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7 1. (Previously Presented) A system for communicating a first  
8 formatted data stream and a second formatted data stream through a  
9 dual spectrum signal over a communication bandwidth, the system  
10 comprising,

11 a first code formatter for formatting a first spreading code  
12 into a first formatted code,

13 a first spreader for spectrum spreading the first formatted  
14 data stream by the first formatted code into a first spread  
15 spectrum signal,

16 a second code formatter for formatting a second spreading code  
17 into a second formatted code,

18 a second spreader for spectrum spreading the second formatted  
19 data stream by the second formatted code into a second spread  
20 spectrum signal, and

21 a modulator for combining and communicating the first spread  
22 spectrum signal and the second spread spectrum signal into the dual  
23 spectrum signal, the first spread spectrum signal having a first  
24 spectrum over the communication bandwidth and the second spread  
25 spectrum signal having a second spectrum over the communication  
26 bandwidth, the first spread spectrum signal and the second spread  
27 spectrum signal respectively uniphase modulating a carrier, the  
28 dual spectrum signal being a uniphase dual spectrum signal,

1 wherein,  
 2 the first code formatter is an NRZ code formatter, and  
 3 the second code formatter is a staggered Manchester code  
 4 formatter.

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 8 2. (Original) The system of claim 1 wherein,  
 9 the first spectrum is a nonsplit spectrum with a peak within the  
 10 communication bandwidth, and  
 11 the second spectrum is a split spectrum with a null within the  
 12 communication bandwidth.

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 14 3. (Original) The system of claim 1 wherein the system is a code  
 15 division multiple access system.

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 17 4. (Original) The system of claim 1 having a first receiver for  
 18 spread spectrum despreding the first spread spectrum signal and  
 19 the second spread spectrum signal, the first receiver comprising,  
 20 a first replica code formatter for formatting a first replica  
 21 spreading code into a first replica formatted code, the first  
 22 replica spreading code being a replica of the first spreading code,  
 23 and

24 a first despreader for spectrum despreding the first spread  
 25 spectrum signal by the first replica formatted code into a first  
 26 despread signal.

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29 The system of claim 1 having a

30 despreding the first

1 5. (Original) The system of claim 1 having a second receiver for  
2 spread spectrum despread the second spread spectrum signal and  
3 the second spread spectrum signal, the second receiver comprising,  
4 a second replica code formatter for formatting a second  
5 replica spreading code into a second replica formatted code, the  
6 second replica spreading code being a replica of the second  
7 spreading code, and  
8 a second desreader for spectrum desreading the second spread  
9 spectrum signal into a second despread signal.

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12 and, the system of claim 1 having

13 a second desreading the second spread spectrum signal

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16 formatting code into a second replica

17 a second replica code being a

18 second code, and

19 a second desreader for spectrum

20 desreading the second spread

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1 6. (Original) The system of claim 1 further having a first receiver  
2 and a second receiver,

3 the first receiver comprising,

4 a first replica code formatter for formatting a first replica  
5 spreading code into a first replica formatted code, the first  
6 replica spreading code being a replica of the first spreading code,  
7 and

8 a first despreader for spectrum despreading the first spread  
9 spectrum signal into a first despread signal, and

10 a detector for detecting the first data stream for the first  
11 despread signal, and

12 the second receiver comprising,

13 a second replica code formatter for formatting a second replica  
14 spreading code into a second replica formatted code, the second  
15 replica spreading code being a replica of the second spreading  
16 code, and

17 a second despreader for spectrum despreading the second spread  
18 spectrum signal by the second replica formatted code into a second  
19 despread signal.

20 a second despreader for spectrum despreading the second spread  
21 spectrum signal by the second replica formatted code into a second  
22 despread signal.

23 the second receiver comprising,

24 a second replica code formatter for

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1 7. (Original) The system of claim 1 further comprising,

2 a first replica code formatter for formatting a first replica  
3 spreading code into a first replica formatted code, the first  
4 replica spreading code being a replica of the first spreading code,

5 a first despreader for spectrum despreading the first spread  
6 spectrum signal into a first despread signal,

7 a second replica code formatter for formatting a second  
8 replica spreading code into a second replica formatted code, the  
9 second replica spreading code being a replica of the second  
10 spreading code, and

11 a second despreader for spectrum despreading the second spread  
12 spectrum signal into a second despread signal,

13 wherein,

14 the first code formatter is an NRZ formatter,

15 the first spread spectrum signal is a nonsplit spectrum signal,

16 the first spectrum is a nonsplit spectrum having a center peak,

17 the second code formatter is a staggered Manchester formatter,

18 the second spread spectrum signal is a split spectrum signal,

19 the second spectrum is a split spectrum having a center null,

20 the first replica code formatter is an NRZ formatter, and  
the first replica spreading code being a replica of the first spreading code,

21 the second replica code formatter is a staggered Manchester

22 code formatter.

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8. (Original) The system of claim 1 further comprising,

a first replica code formatter for formatting a first replica spreading code into a first replica formatted code, the first replica spreading code being a replica of the first spreading code,

a first despreader for spectrum despreading the first spread spectrum signal into a first despread signal,

a second replica code formatter for formatting a second replica spreading code into a second replica formatted code, the second replica spreading code being a replica of the second spreading code, and

a second despreader for spectrum despreading the second spread spectrum signal into a second despread signal,

wherein,

the first replica code formatter for

the first code formatter is in a transmitter,

the first spread spectrum signal is a nonsplit spectrum signal,

the second code formatter is in the transmitter,

the second spread spectrum signal is a split spectrum signal,

the first replica code formatter is in a first receiver,

the second replica code formatter is in a second receiver,

the first formatted data stream is communicated between the transmitter and the first receiver, and

the second formatted data stream is communicated between the transmitter and the second receiver.

into a second despread

into a second despread

into a second despread

into a second despread

second code formatter is in the

second spread spectrum signal

9. (Original) The system of claim 1 further comprising,

a first replica code formatter for formatting a first replica spreading code into a first replica formatted code, the first replica spreading code being a replica of the first spreading code,

a first despreader for spectrum despreading the first spread spectrum signal into a first despread signal,

a second replica code formatter for formatting a second replica spreading code into a second replica formatted code, the second replica spreading code being a replica of the second spreading code, and

a second despreader for spectrum despreading the second spread spectrum signal into a second despread signal,

wherein,

the first code formatter is an NRZ formatter,

the first spread spectrum signal is a nonsplit spectrum signal,

the second code formatter is a staggered Manchester formatter,

the second spread spectrum signal is a split spectrum signal,

the first replica code formatter is an NRZ formatter,

the second replica code formatter is a staggered Manchester code formatter,

the first code formatter and the second code formatter are disposed in a transmitter.

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first replica code formatter is

second replica code formatter

1 10. (Original) The system of claim 1 wherein,

2 the staggered Manchester format is a staggered Biphase-L  
3 format.

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5 11. (Original) The system of claim 1 wherein,

6 the staggered Manchester format is a staggered binary offset  
7 carrier format.

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12 (Original) The system of claim 1 wherein,

13 the staggered Manchester format is a staggered

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17 The system of claim 1 wherein,

18 the staggered Manchester format is a staggered

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